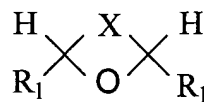
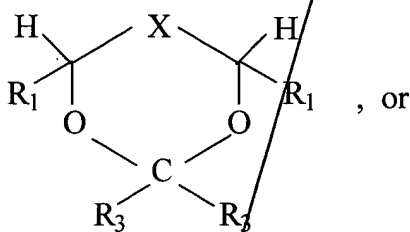
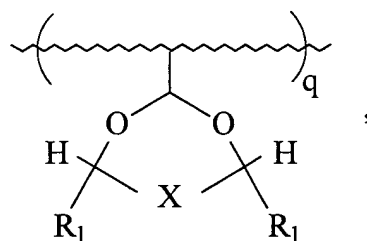
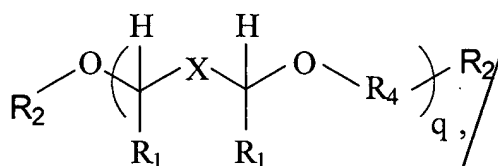


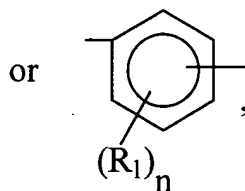
IN THE CLAIMS

Claims 1 to 24 (canceled)

25. (New) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane, polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer having the formula:



- where X is $-R_1C=CR_1-$, $-C\equiv C-$,



- each R is independently selected from hydrogen and R', each R' is independently selected from alkyl from C₁ to C₂₀, aryl from C₆ to C₂₀, alkaryl from C₇ to C₂₀, and aralkyl from C₇ to C₂₀; each R₁ is independently selected from R, OR, RCO, ROCO, ROCO₂, P(R)₂, P(OR)₂,

8 PR(OR), N(R)₂, (R)₂NCO, (R)₂NCO₂, SR, and halogen; each R₂ is independently selected
9 from R, RCO, ROCO, P(OR)₂, Sn(R)_p(OR)_{3-p}, Sn(R)_p(OCOR)_{3-p}, Si(R)_p(OR)_{3-p}, and
10 B(R)_p(OR)_{2-p}, and two R₁ groups, two R₂ groups, or an R₁ group and an R₂ group can be
11 bridged together to form a ring, except that when X is -R₁C=CR₁- at least one R₂ is not
12 hydrogen; each R₃ is independently selected from R', RCO, ROCO, ROCO₂, OR, SR,
13 N(R)₂, OP(R)₂, and OP(OR)₂; R₄ is alkylene from C₁ to C₂₀, arylene from C₆ to C₂₀,
14 (aryl)alkylene from C₇ to C₂₀, (alkyl)arylene from C₇ to C₂₀, alkanediyl from C₁ to C₂₀,
15 (aryl)alkanediyl from C₇ to C₂₀, -CO-(alkylene)-CO- from C₁ to C₂₀, -CO-arylene-CO- from
16 C₆ to C₂₀, -CO-(aryl)alkylene-CO- from C₇ to C₂₀, -CO-(alkyl)arylene-CO- from C₇ to C₂₀,
17 Si(R)₂, SiR(OR), Si(OR)₂, P(OR), B(OR), Sn(R)₂, SnR(OR), or SnR(O-CO-R); and q is 1
18 to 1000.

26. (New) A polymer according to Claim 25 wherein said polymer is polyvinyl chloride.

27. (New) A polymer according to Claim 25 that is has been made into an article that has
been sterilized with gamma radiation.

28. (New) A polymer according to Claim 25 wherein said stabilizer is
cis-4-benzyloxy-2-buten-1-ol.

29. (New) A polymer according to Claim 25 wherein said stabilizer is

cis-1,4-dibenzyloxy-2-butene.

30. (New) A polymer according to Claim 25 wherein said stabilizer is a phthalan.

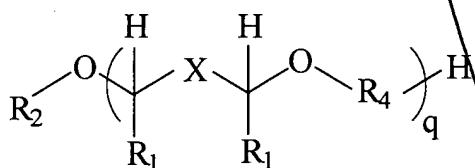
31. (New) A polymer according to Claim 25 wherein X is $-R_1C=CR_1-$.

32. (New) A polymer according to Claim 25 wherein X is $-HC=CH-$.

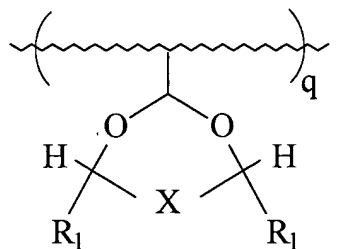
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33. (New) A polymer according to Claim 25 where each R is independently selected from hydrogen, alkyl from C_1 to C_{12} , aryl from C_6 to C_{12} , alkaryl from C_7 to C_{12} , and aralkyl from C_7 to C_{12} .

34. (New) A polymer according to Claim 25 wherein said stabilizer has the structure:

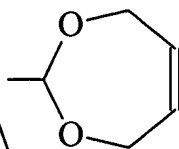


or



where R_4 is alkylene from C_1 to C_8 , (aryl)alkylene from C_7 to C_8 , or $-\text{CO}-(\text{aryl})\text{alkylene}-\text{CO}-$ from C_7 to C_8 ; and q is 1 to 5.

35. (New) A polymer according to Claim 34 wherein said stabilizer has the pendant group



36. (New) A polymer according to Claim 34 that has been made into an article and sterilized with gamma radiation.

37. (New) A polymer according to Claim 25 wherein R is benzyl.

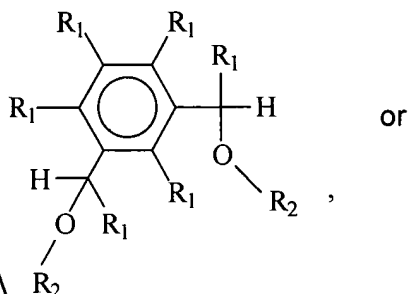
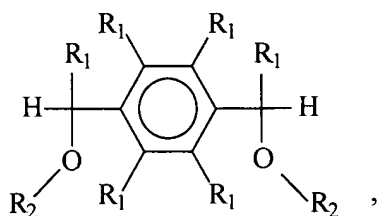
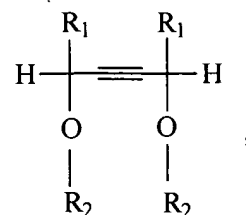
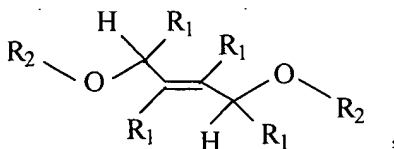
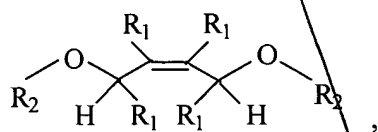
38. (New) A polymer according to Claim 25 wherein R_1 is H.

39. (New) A polymer according to Claim 25 wherein R_2 is R.

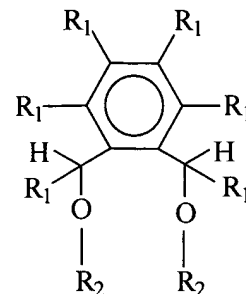
40. (New) A polymer according to Claim 25 wherein R_3 is R.

41. (New) A polymer according to Claim 25 wherein said two R_1 groups that can be bridged together to form a ring are selected from the group consisting of alkylene from C_1 to C_8 , (aryl)alkylene from C_7 to C_8 , and $-\text{CO}-(\text{aryl})\text{alkylene}-\text{CO}-$ from C_7 to C_8 .

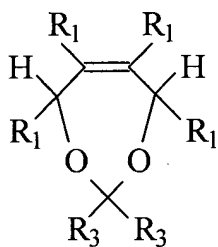
42. (New) A polymer according to Claim 25 wherein said stabilizer has the formula



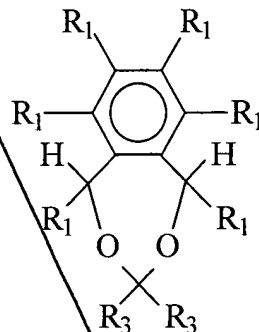
or



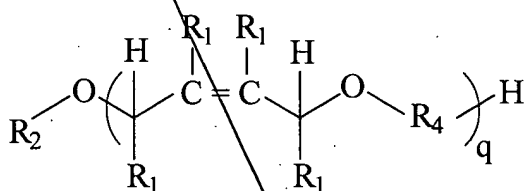
43. (New) A polymer according to Claim 25 wherein said stabilizer has the formula:



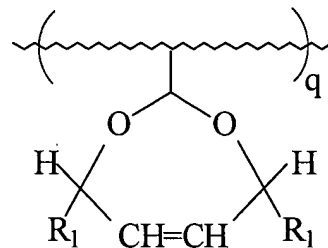
or



- 1 44. (New) A polymer which comprises polyvinyl chloride, polycarbonate, polyurethane,
- 2 polyethylene, or polypropylene, containing about 0.005 to about 10 phr of a stabilizer
- 3 having the formula:



or



where each R is independently selected from hydrogen and R', each R' is independently selected from alkyl from C₁ to C₂₀, aryl from C₆ to C₂₀, alkaryl from C₇ to C₂₀, and aralkyl from C₇ to C₂₀; each R₁ is independently selected from R, OR, RCO, ROCO, ROCO₂, P(R)₂, P(OR)₂, PR(OR), N(R)₂, (R)₂NCO, (R)₂NCO₂, SR, and halogen; each R₂ is independently selected from R, RCO, ROCO, P(OR)₂, Sn(R)_p(OR)_{3-p}, Sn(R)_p(OCOR)_{3-p}, Si(R)_p(OR)_{3-p}, and B(R)_p(OR)_{2-p}, and two R₁ groups, two R₂ groups, or an R₁ group and an R₂ group can be bridged together to form a ring, except that when X is -R₁C=CR₁- at least one R₂ is not hydrogen; R₄ is alkylene from C₁ to C₈, (aryl)alkylene from C₇ to C₈, or -CO-(aryl)alkylene-CO- from C₇ to C₈; and q is 1 to 5.

45. (New) A polymer according to Claim 44 wherein said polymer is polyvinyl chloride.

46. (New) A polymer according to Claim 45 that has been made into an article and said article has been sterilized with gamma radiation.

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48. (New) Polyvinyl chloride according to Claim 47 that has been made into an article and said article has been sterilized with gamma radiation.